

Technical Support Project (TSP) Expertise Directory

(Last Update: April 10, 2014)

This directory provides a snapshot of the various types of expertise possessed by the current members of the three Technical Support Project Forums (Ground Water, Federal Facilities and Engineering). It is based on input provided by the members themselves.

EPA established the TSP in 1987 to provide technical assistance to Regional Remedial Project Managers, Corrective Action Staff, and On-Scene Coordinators. The TSP consists of the network of Forums and specialized Technical Support Centers located in ORD laboratories and with OSWER's Environmental Response Team. The Forums work to improve communications and assist in technical transfer between the Regions and the Centers. The Forums also act as technical resources, and disseminate information resulting from the Project to their Regional colleagues. That's where this Directory fits into the scheme.

The experience level of the Regional technical personnel in the three Forums is quite impressive. This Expertise Directory has been compiled (with input from members) to make that experience available to staff. It gives staff a way to connect to the right people; those who possess the technical expertise that is currently needed can be accessed.

This directory is searchable, but not sortable. A list of all areas of expertise that are currently listed in the directory is included on the next page to improve your searches. If there are any errors, please report them to any Forum co-chair, as denoted by an asterisk on the [members list](#).

Current Areas of Expertise

Remedies:

- Acid Mine Drainage/Mine Influenced Water treatment including Biochemical reactors, HDS, single pass lime systems.
- Air Sparging
- Air Stripping
- AMD/MIW treatment including Biochemical Reactors, HDS, and single phase lime
- BRAC and ICs
- Chemical Oxidation (ISCO)
- Chemical Reduction (In Situ)
- Chemical Treatment/Dechlorination (Ex Situ)
- Electrochemical Treatment
- Electrokinesis Separation
- Engineered Barriers (slurry/sheet pile walls)
- Enhanced Bioremediation (Groundwater)
- Enhanced Bioremediation (Soil)
- Evapotranspiration Landfill Covers
- Excavation
- Fracturing
- Geotextile/Clay Covers
- Horizontal Wells
- Incineration
- Indoor Air remediation/mitigation
- In-Well Air Stripping
- Mercury Retort
- Monitored Natural Attenuation
- Monitoring
- Multi Phase Extraction
- Open Burn/Open Detonation
- Permeable Reactive Barrier
- Phytoremediation
- Pump and Treat
- Recirculating Wells
- Soil Vapor Extraction
- Solidification/Stabilization
- Surfactant Enhanced ISCO
- Thermal Desorption (Ex Situ)
- Thermal Oxidizer
- Thermal Treatment (In Situ)
- Ultraviolet Oxidation

Site Characterization Technologies:

- Bioassays
- Borehole Geophysics
- Capture Zone Analysis
- Data Visualization Tools
- Direct-Push Analytical Systems
- Direct-Push Geotechnical Sensors
- Direct-Push Groundwater Samplers
- Direct-Push Membrane Interface Probes
- Direct-Push Platforms
- Direct-Push Soil and Soil-Gas Samplers
- Electrical conductivity
- Electromagnetics
- Explosives
- Fiber Optic Chemical Sensors
- FID/PID (Flame & Photo Ionization Detectors)
- Fluorescence Kits
- Flute Liners
- Flux measurement Technologies
- Gas Chromatography
- Ground Penetrating Radar
- Ground Water/Surface Water Interaction
- Groundwater Monitoring Network Design or Optimization
- Groundwater Sampling Methods/ Considerations
- GW Plume Attenuation Modeling Tools
- Hydraulic Conductivity Aquifer Testing
- Hydrogeologic Conceptual Site Models
- Immunoassays
- Inductively coupled Plasma (ICP)
- Infrared Spectroscopy and Imaging
- Isotropic Analysis
- Laser-induced Fluorescence
- Low-Flow GW Sampling Procedures
- Magnetics for Environmental Applications
- Mass Spectrometry
- Multi-incremental Sampling
- Optical Tools (i.e. ROST)
- Passive Diffusion Bag (PDB) Samplers
- Passive Sampling
- Passive Soil Gas Samplers
- PHILLIS
- Pneumatic logging

Site Characterization Technologies (continued):

- Pump Test Design/Review
- Radiological Techniques (Gamma/Alpha Spectrometry)
- RCRA Groundwater Monitoring
- Sediment Pore Water Sampling
- Statistical Analysis of GW Data
- Statistical Sampling Design
- Surface Geophysics
- TAGA
- Tracers
- Well Design/Installation/Development
- X-ray Diffraction (lography/petrographs)
- X-Ray Fluorescence

Contaminant Groups:

- Asbestos
- BTEX
- Chlorinated SVOCs
- Chlorinated VOCs
- Dioxins
- Explosives, Propellants, and Pyrotechnics
- Fuels and Distillates
- Mercury
- Metals
- Nonchlorinated SVOCs
- Nonchlorinated VOCs
- Perchlorates
- Pesticides
- Phenols
- Polychlorinated Biphenyls (PCBs)
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Radioactive Materials
- Radiological

Models:

- 2DFATMIC
- 3DFATMIC
- AMD Treat
- Analytical/Numerical Solutions for Aquifer Parameters
- BIOCHLOR
- BIOPLUME II
- BIOSCREEN
- CAMEO

- CHEMFLO
- Environmental Footprint Analysis
- FIELDS
- FOOTPRINT
- GEOEAS
- GEOPACK
- Green Remediation Tools
- Ground Water Sensitivity Toolkit
- Johnson- Ettinger
- MAROS
- MODFLOW Manual
- MT3D
- MVS/EVS
- NAS
- Only to evaluate for appropriateness-do not run the models
- PESTAN
- PRG, BPRG, SPRG, DCC, BDCC, SDCC
- REMchlor
- RESRAD
- SADA
- Scribe
- SEFA (Spreadsheets for Environmental Footprint Analysis)
- SiteWise
- SourceDK
- SRT (AFCEE)
- UTCHEM
- VLEACH
- VSP
- WhAEM
- WhAEM2000
- WHPA

Site Types:

- Chemical Manufacturing Facilities
- Dry Cleaners
- Explosives Sites
- Lead and Asbestos Sites
- Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators
- Mining Sites
- Pesticide Sites
- Rad Sites
- Sediment Sites
- VOC Groundwater Plumes
- Wood Treatment Facilities

Engineering Forum

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Andy Palestini Region 3 RPM 215-814-3233 palestini.andy@epa.gov			<ul style="list-style-type: none"> Chlorinated SVOCs Metals Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> Wood Treatment Facilities
Brad Bradley Region 5 Brownfields Project Manager 312-886-4742 bradley.brad@epa.gov			<ul style="list-style-type: none"> Asbestos Metals 	<ul style="list-style-type: none"> Green Remediation Tools 	<ul style="list-style-type: none"> Lead and Asbestos Sites
Carmen J Santiago-Ocasio Region 9 RPM 415 972-3525 santiago-ocasio.carmen@epa.gov	<ul style="list-style-type: none"> Engineered Barriers (slurry/sheet pile walls) Pump and Treat Solidification/Stabilization 	<ul style="list-style-type: none"> Direct-Push Groundwater Samplers Gas Chromatography Ground Penetrating Radar Groundwater Monitoring Network Design or Optimization PHILLIS 	<ul style="list-style-type: none"> BTEX Metals Pesticides Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators
Deborah Cox Region 4 RPM (404)562-8317 cox.deborah@epa.gov	<ul style="list-style-type: none"> Soil Vapor Extraction 	<ul style="list-style-type: none"> FID/PID (Flame & Photo Ionization Detectors) Passive Diffusion Bag (PDB) Samplers Well Design/Installation/Development 	<ul style="list-style-type: none"> Chlorinated VOCs 		<ul style="list-style-type: none"> Chemical Manufacturing Facilities
Diana Bless Cincinnati Lab, NRMRL, STD, SAB Chemical Engineer 513- 569-7674 bless.diana@epa.gov	<ul style="list-style-type: none"> Acid Mine Drainage/Mine Influenced Water treatment including Biochemical reactors, HDS, single pass lime systems. AMD/MIW treatment including Biochemical Reactors, HDS, and single phase lime 		<ul style="list-style-type: none"> Mercury Metals 		<ul style="list-style-type: none"> Mining Sites

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Donna McCartney Region 3 RCRA RPM 215-814-3427 mccartney.donna@epa.gov	<ul style="list-style-type: none"> Chemical Oxidation (ISCO) Engineered Barriers (slurry/sheet pile walls) Excavation Geotextile/Clay Covers Phytoremediation Solidification/Stabilization 	<ul style="list-style-type: none"> Bioassays Data Visualization Tools Direct-Push Groundwater Samplers Direct-Push Membrane Interface Probes Passive Diffusion Bag (PDB) Samplers Sediment Pore Water Sampling Statistical Sampling Design X-Ray Fluorescence 	<ul style="list-style-type: none"> BTEX Chlorinated VOCs Fuels and Distillates Mercury Metals Phenols 	<ul style="list-style-type: none"> BIOSCREEN MODFLOW Manual 	<ul style="list-style-type: none"> Chemical Manufacturing Facilities Sediment Sites VOC Groundwater Plumes Wood Treatment Facilities
Gary W. Miller Region 6 Environmental Engineer 214-665-8306 miller.gary@epa.gov	<ul style="list-style-type: none"> Evapotranspiration Landfill Covers Indoor Air remediation/mitigation Permeable Reactive Barrier 	<ul style="list-style-type: none"> Multi-incremental Sampling Passive Soil Gas Samplers TAGA 	<ul style="list-style-type: none"> BTEX Chlorinated SVOCs Chlorinated VOCs Polychlorinated Biphenyls (PCBs) 		<ul style="list-style-type: none"> Chemical Manufacturing Facilities Dry Cleaners VOC Groundwater Plumes
Harold Ball Region 9 Environmental Engineer 415-972-3047 ball.harold@epa.gov	<ul style="list-style-type: none"> Incineration Thermal Oxidizer 	<ul style="list-style-type: none"> Gas Chromatography 	<ul style="list-style-type: none"> Dioxins 		
Hilary Thornton Region 4 RPM 404-562-8809 thornton.hilary@epa.gov	<ul style="list-style-type: none"> Pump and Treat 	<ul style="list-style-type: none"> Bioassays Borehole Geophysics Data Visualization Tools Direct-Push Groundwater Samplers Direct-Push Membrane Interface Probes Direct-Push Soil and Soil-Gas Samplers Flute Liners Gas Chromatography Ground Penetrating Radar Immunoassays Passive Diffusion Bag (PDB) Samplers Passive Soil Gas Samplers Statistical Sampling Design Surface Geophysics 	<ul style="list-style-type: none"> Asbestos BTEX Chlorinated SVOCs Chlorinated VOCs Dioxins Metals Nonchlorinated SVOCs Nonchlorinated VOCs Polychlorinated Biphenyls (PCBs) Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> Green Remediation Tools 	<ul style="list-style-type: none"> Chemical Manufacturing Facilities Sediment Sites VOC Groundwater Plumes Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Jim Harrington NYSDEC Environmental Engineer 5184029624 jbharrin@gw.dec.state.ny.us	<ul style="list-style-type: none"> • Air Sparging • Air Stripping • Chemical Oxidation (ISCO) • In-Well Air Stripping • Monitored Natural Attenuation • Soil Vapor Extraction • Solidification/Stabilization • Surfactant Enhanced ISCO • Thermal Desorption (Ex Situ) • Thermal Treatment (In Situ) 		<ul style="list-style-type: none"> • BTEX • Chlorinated VOCs • Fuels and Distillates • Mercury • Metals • Nonchlorinated SVOCs • Nonchlorinated VOCs • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> • Dry Cleaners • Sediment Sites • VOC Groundwater Plumes
JoAnn M. Eskelsen OSRTI/ERT Environmental Engineer 702-784-8006 eskelsen.joann@epa.gov	<ul style="list-style-type: none"> • Chemical Oxidation (ISCO) • Enhanced Bioremediation (Soil) • Incineration • Phytoremediation • Soil Vapor Extraction • Solidification/Stabilization • Thermal Desorption (Ex Situ) • Thermal Oxidizer • Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> • Direct-Push Soil and Soil-Gas Samplers • FID/PID (Flame & Photo Ionization Detectors) • Flux measurement Technologies • Ground Penetrating Radar • Immunoassays • TAGA 	<ul style="list-style-type: none"> • Chlorinated SVOCs • Dioxins • Nonchlorinated SVOCs • Pesticides • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Lead and Asbestos Sites • Pesticide Sites • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Jon Bornholm Region 4 RPM 404-562-8820 bornholm.jon@epa.gov	<ul style="list-style-type: none"> • Air Sparging • Enhanced Bioremediation (Groundwater) • Enhanced Bioremediation (Soil) • Excavation • Incineration • Monitored Natural Attenuation • Phytoremediation • Pump and Treat • Soil Vapor Extraction • Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> • Borehole Geophysics • Capture Zone Analysis • Direct-Push Analytical Systems • Direct-Push Geotechnical Sensors • Direct-Push Groundwater Samplers • Direct-Push Membrane Interface Probes • Electrical conductivity • Electromagnetics • FID/PID (Flame & Photo Ionization Detectors) • Laser-induced Fluorescence • Low-Flow GW Sampling Procedures • Well Design/Installation/Development 	<ul style="list-style-type: none"> • BTEX • Chlorinated VOCs • Metals • Pesticides • Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Pesticide Sites • VOC Groundwater Plumes • Wood Treatment Facilities
Joy Jenkins Region 8 RPM 303-312-6873 jenkins.joy@epa.gov	<ul style="list-style-type: none"> • AMD/MIW treatment including Biochemical Reactors, HDS, and single phase lime • Pump and Treat 	<ul style="list-style-type: none"> • Gas Chromatography • Inductively coupled Plasma (ICP) • Mass Spectrometry 	<ul style="list-style-type: none"> • Chlorinated VOCs • Dioxins • Metals 		<ul style="list-style-type: none"> • Mining Sites
Joy Jenkins Region 8 RPM 303-312-6873 Jenkins.Joy@epa.gov	<ul style="list-style-type: none"> • Acid Mine Drainage/Mine Influenced Water treatment including Biochemical reactors, HDS, single pass lime systems. 	<ul style="list-style-type: none"> • Mass Spectrometry 			<ul style="list-style-type: none"> • Mining Sites
Joy Jenkins Region 8 RPM 303-312-6873 Jenkins.Joy@epa.gov	<ul style="list-style-type: none"> • Acid Mine Drainage/Mine Influenced Water treatment including biochemical reactors, HDS, single pass lime systems. 	<ul style="list-style-type: none"> • Gas Chromatography • Low-Flow GW Sampling Procedures • Mass Spectrometry 	<ul style="list-style-type: none"> • Metals 		<ul style="list-style-type: none"> • Mining Sites

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Karen Scheuermann Region 9 Environmental Engineer (415) 972-3356 scheuermann.karen@epa.gov				<ul style="list-style-type: none"> • Environmental Footprint Analysis • Green Remediation Tools • SEFA (Spreadsheets for Environmental Footprint Analysis) • SiteWise • SRT (AFCEE) 	
Kira Lynch ORD-OSP Region 10 STL 206-553-2144 lynch.kira@epa.gov	<ul style="list-style-type: none"> • Enhanced Bioremediation (Groundwater) • Enhanced Bioremediation (Soil) • Excavation • Monitored Natural Attenuation • Pump and Treat • Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> • Bioassays • Data Visualization Tools • Direct-Push Analytical Systems • Direct-Push Groundwater Samplers • Direct-Push Membrane Interface Probes • Direct-Push Platforms • Direct-Push Soil and Soil-Gas Samplers • Fiber Optic Chemical Sensors • FID/PID (Flame & Photo Ionization Detectors) • Fluorescence Kits • Flute Liners • Flux measurement Technologies • Gas Chromatography • Immunoassays • Inductively coupled Plasma (ICP) • Laser-induced Fluorescence • Mass Spectrometry • Multi-incremental Sampling • Optical Tools (i.e. ROST) • Passive Diffusion Bag (PDB) Samplers • Passive Soil Gas Samplers • X-Ray Fluorescence 	<ul style="list-style-type: none"> • Asbestos • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Explosives, Propellants, and Pyrotechnics • Metals • Pesticides • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) • Radioactive Materials 	<ul style="list-style-type: none"> • BIOCHLOR • MVS/EVS • REMchlor 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Explosives Sites • Mining Sites • Pesticide Sites • Rad Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Mark Rothas Army Corps of Engineers Environmental Center of Expertise Environmental Engineer 402/697-2580 Mark.S.Rothas@usace.army.mil	<ul style="list-style-type: none"> • Air Sparging • Air Stripping • Chemical Oxidation (ISCO) • Chemical Reduction (In Situ) • Enhanced Bioremediation (Groundwater) • Enhanced Bioremediation (Soil) • Excavation • Monitored Natural Attenuation • Multi Phase Extraction • Pump and Treat • Soil Vapor Extraction • Solidification/Stabilization • Thermal Desorption (Ex Situ) • Thermal Oxidizer • Thermal Treatment (In Situ) • Ultraviolet Oxidation 		<ul style="list-style-type: none"> • BTEX • Chlorinated VOCs • Explosives, Propellants, and Pyrotechnics • Fuels and Distillates • Metals • Nonchlorinated VOCs • Perchlorates • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Explosives Sites • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • VOC Groundwater Plumes • Wood Treatment Facilities
Matthew Jefferson Region 7 RPM (913) 551-7520 jefferson.matthew@epa.gov	<ul style="list-style-type: none"> • Ultraviolet Oxidation 	<ul style="list-style-type: none"> • Explosives • GW Plume Attenuation Modeling Tools 	<ul style="list-style-type: none"> • Chlorinated VOCs • Explosives, Propellants, and Pyrotechnics • Metals • Radioactive Materials • Radiological 	<ul style="list-style-type: none"> • CAMEO 	<ul style="list-style-type: none"> • Dry Cleaners • Explosives Sites • Mining Sites • Pesticide Sites • Rad Sites • Sediment Sites • VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Michael Gill Region 9 ORD Superfund and Technology Liaison 415-972-3054 gill.michael@epa.gov	<ul style="list-style-type: none"> • Air Stripping • Chemical Oxidation (ISCO) • Enhanced Bioremediation (Groundwater) • Indoor Air remediation/mitigation • Monitored Natural Attenuation • Permeable Reactive Barrier • Phytoremediation • Pump and Treat • Soil Vapor Extraction • Thermal Treatment (In Situ) • Ultraviolet Oxidation 	<ul style="list-style-type: none"> • Data Visualization Tools • Multi-incremental Sampling • TAGA 	<ul style="list-style-type: none"> • BTEX • Chlorinated VOCs • Fuels and Distillates • Mercury • Perchlorates 	<ul style="list-style-type: none"> • Environmental Footprint Analysis • FIELDS • FOOTPRINT • Green Remediation Tools • SRT (AFCEE) 	<ul style="list-style-type: none"> • Mining Sites • VOC Groundwater Plumes
Michelle Kerr US EPA Region 5 RPM 312.886.8961 kerr.michelle@epa.gov	<ul style="list-style-type: none"> • Enhanced Bioremediation (Groundwater) • Enhanced Bioremediation (Soil) • Monitored Natural Attenuation • Phytoremediation • Pump and Treat • Soil Vapor Extraction 	<ul style="list-style-type: none"> • Gas Chromatography • Ground Penetrating Radar • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Hydrogeologic Conceptual Site Models • Inductively coupled Plasma (ICP) • Low-Flow GW Sampling Procedures • Mass Spectrometry 	<ul style="list-style-type: none"> • BTEX • Chlorinated VOCs • Mercury • Metals • Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> • BIOCHLOR • Environmental Footprint Analysis • Johnson- Ettinger • SEFA (Spreadsheets for Environmental Footprint Analysis) 	<ul style="list-style-type: none"> • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Mining Sites • VOC Groundwater Plumes • Wood Treatment Facilities
NATE NEMANI REGION 5 CORRECTIVE ACTION PROJECT MANAGER 312-886-3224 nemani.nate@epa.gov	<ul style="list-style-type: none"> • Incineration • Thermal Oxidizer • Thermal Treatment (In Situ) 		<ul style="list-style-type: none"> • BTEX • Chlorinated VOCs • Metals • Polychlorinated Biphenyls (PCBs) 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Paul Randall Office of R&D Sr. Chemical Engineer 5135697673 randall.paul@epa.gov	<ul style="list-style-type: none"> • Acid Mine Drainage/Mine Influenced Water treatment including Biochemical reactors, HDS, single pass lime systems. • Acid Mine Drainage/Mine Influenced Water treatment including biochemical reactors, HDS, single pass lime systems. • AMD/MIW treatment including Biochemical Reactors, HDS, and single phase lime • Chemical Oxidation (ISCO) • Chemical Reduction (In Situ) • Chemical Treatment/Dechlorination (Ex Situ) • Electrochemical Treatment • Electrokinetic Separation • Engineered Barriers (slurry/sheet pile walls) • Mercury Retort • Monitored Natural Attenuation • Monitoring • Phytoremediation • Solidification/Stabilization • Surfactant Enhanced ISCO • Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> • Capture Zone Analysis • Data Visualization Tools • Electrical conductivity • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Inductively coupled Plasma (ICP) • Multi-incremental Sampling • Passive Sampling • Pump Test Design/Review • RCRA Groundwater Monitoring • Sediment Pore Water Sampling • Statistical Sampling Design • Surface Geophysics • X-ray Diffraction (lography/petrographs) 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Dioxins • Explosives, Propellants, and Pyrotechnics • Fuels and Distillates • Mercury • Metals • Nonchlorinated VOCs • Perchlorates • Pesticides • Phenols • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) • Radioactive Materials 	<ul style="list-style-type: none"> • AMD Treat • CAMEO • CHEMFLO • Environmental Footprint Analysis • Green Remediation Tools • Ground Water Sensitivity Toolkit • MODFLOW Manual • MT3D • SEFA (Spreadsheets for Environmental Footprint Analysis) • UTCHEM • VLEACH 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Explosives Sites • Lead and Asbestos Sites • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Mining Sites • Pesticide Sites • Rad Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities
Raji Josiam Region 6 Remedial Project Manager 214-665-8529 josiam.raji@epa.gov	<ul style="list-style-type: none"> • Pump and Treat 	<ul style="list-style-type: none"> • Direct-Push Soil and Soil-Gas Samplers • GW Plume Attenuation Modeling Tools • Low-Flow GW Sampling Procedures • Statistical Sampling Design 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Nonchlorinated SVOCs • Nonchlorinated VOCs • Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> • MAROS • VSP 	<ul style="list-style-type: none"> • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Stephanie Vaughn Region 2 RPM 212-637-3914 vaughn.stephanie@epa.gov	<ul style="list-style-type: none"> • Engineered Barriers (slurry/sheet pile walls) • Enhanced Bioremediation (Groundwater) • Excavation • Indoor Air remediation/mitigation • Pump and Treat • Solidification/Stabilization • Thermal Desorption (Ex Situ) 	<ul style="list-style-type: none"> • Multi-incremental Sampling • Sediment Pore Water Sampling 	<ul style="list-style-type: none"> • Chlorinated SVOCs • Chlorinated VOCs • Dioxins • Mercury • Metals • Pesticides • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) • Radiological 	<ul style="list-style-type: none"> • Environmental Footprint Analysis • Green Remediation Tools • SEFA (Spreadsheets for Environmental Footprint Analysis) 	<ul style="list-style-type: none"> • Pesticide Sites • Rad Sites • Sediment Sites • VOC Groundwater Plumes
Suzanne Davis State of California Hazardous Substances Engineer 916-327-4206 sdavis@dtsc.ca.gov	<ul style="list-style-type: none"> • Enhanced Bioremediation (Groundwater) • Monitored Natural Attenuation • Open Burn/Open Detonation • Soil Vapor Extraction 	<ul style="list-style-type: none"> • Direct-Push Analytical Systems • Direct-Push Soil and Soil-Gas Samplers 	<ul style="list-style-type: none"> • Chlorinated VOCs • Explosives, Propellants, and Pyrotechnics • Mercury 		<ul style="list-style-type: none"> • Explosives Sites

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Terrence M. Lyons ORD/LRPCD/RRB Environmental Engineer 513 569 7589 lyons.terry@epa.gov	<ul style="list-style-type: none"> • Chemical Oxidation (ISCO) • Chemical Reduction (In Situ) • Chemical Treatment/Dechlorination (Ex Situ) • Geotextile/Clay Covers • Solidification/Stabilization • Thermal Desorption (Ex Situ) • Thermal Oxidizer • Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> • Direct-Push Analytical Systems • Direct-Push Geotechnical Sensors • Direct-Push Groundwater Samplers • Direct-Push Membrane Interface Probes • Direct-Push Platforms • Direct-Push Soil and Soil-Gas Samplers • Electrical conductivity • Electromagnetics • Explosives • Fiber Optic Chemical Sensors • FID/PID (Flame & Photo Ionization Detectors) • Fluorescence Kits • Flux measurement Technologies • Gas Chromatography • Ground Penetrating Radar • Groundwater Sampling Methods/ Considerations • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Immunoassays • Infrared Spectroscopy and Imaging • Laser-induced Fluorescence • Mass Spectrometry • Passive Diffusion Bag (PDB) Samplers • Passive Sampling • Passive Soil Gas Samplers • RCRA Groundwater Monitoring • Sediment Pore Water Sampling • Surface Geophysics • Well Design/Installation/ Development • X-ray Diffraction (lography/ petrographs) • X-Ray Fluorescence 	<ul style="list-style-type: none"> • Asbestos • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Dioxins • Explosives, Propellants, and Pyrotechnics • Fuels and Distillates • Mercury • Metals • Nonchlorinated SVOCs • Nonchlorinated VOCs • Perchlorates • Pesticides • Phenols • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) • Radioactive Materials • Radiological 	<ul style="list-style-type: none"> • 3DFATMIC • GEOPACK • MODFLOW Manual 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Explosives Sites • Lead and Asbestos Sites • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Pesticide Sites • Rad Sites • Sediment Sites • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Terry Burton ORD/Region 6 Superfund and Technology Liaison (214) 665-7139 Burton.Terry@epa.gov	<ul style="list-style-type: none"> • AMD/MIW treatment including Biochemical Reactors, HDS, and single phase lime • Chemical Oxidation (ISCO) • Chemical Reduction (In Situ) • Chemical Treatment/Dechlorination (Ex Situ) • Engineered Barriers (slurry/sheet pile walls) • Enhanced Bioremediation (Groundwater) • Enhanced Bioremediation (Soil) • Evapotranspiration Landfill Covers • Monitored Natural Attenuation • Permeable Reactive Barrier • Solidification/Stabilization • Surfactant Enhanced ISCO • Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Explosives, Propellants, and Pyrotechnics • Metals • Perchlorates • Radioactive Materials • Radiological 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Explosives Sites • Rad Sites • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Terry Lyons ORD/NRMRL/LRPCD/RRB Environmental Engineer 513-569-7589 lyons.terry@epa.gov	<ul style="list-style-type: none"> • Acid Mine Drainage/Mine Influenced Water treatment including Biochemical reactors, HDS, single pass lime systems. • Acid Mine Drainage/Mine Influenced Water treatment including biochemical reactors, HDS, single pass lime systems. • Air Sparging • Air Stripping • BRAC and ICs • Chemical Oxidation (ISCO) • Chemical Reduction (In Situ) • Chemical Treatment/Dechlorination (Ex Situ) • Engineered Barriers (slurry/sheet pile walls) • Enhanced Bioremediation (Soil) • Evapotranspiration Landfill Covers • Excavation • Geotextile/Clay Covers • Horizontal Wells • Incineration • Monitored Natural Attenuation • Multi Phase Extraction • Permeable Reactive Barrier • Pump and Treat • Solidification/Stabilization • Thermal Desorption (Ex Situ) • Thermal Oxidizer • Thermal Treatment (In Situ) • Ultraviolet Oxidation 	<ul style="list-style-type: none"> • Direct-Push Groundwater Samplers • Direct-Push Platforms • Direct-Push Soil and Soil-Gas Samplers • Electrical conductivity • Fiber Optic Chemical Sensors • FID/PID (Flame & Photo Ionization Detectors) • Fluorescence Kits • Flux measurement Technologies • Gas Chromatography • Ground Penetrating Radar • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Immunoassays • Infrared Spectroscopy and Imaging • Laser-induced Fluorescence • Low-Flow GW Sampling Procedures • Mass Spectrometry • Passive Diffusion Bag (PDB) Samplers • Passive Sampling • Passive Soil Gas Samplers • RCRA Groundwater Monitoring • Sediment Pore Water Sampling 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Dioxins • Fuels and Distillates • Mercury • Metals • Nonchlorinated SVOCs • Nonchlorinated VOCs • Perchlorates • Pesticides • Phenols • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) • Radioactive Materials 	<ul style="list-style-type: none"> • 2DFATMIC • 3DFATMIC • Green Remediation Tools • MODFLOW Manual 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Lead and Asbestos Sites • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Mining Sites • Pesticide Sites • Rad Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Theresa Hwilka Region 2 RPM 212-637-4409 hwilka.theresa@epa.gov	<ul style="list-style-type: none"> Excavation Pump and Treat Soil Vapor Extraction Solidification/Stabilization Thermal Treatment (In Situ) 		<ul style="list-style-type: none"> Asbestos Chlorinated VOCs Metals 		<ul style="list-style-type: none"> Lead and Asbestos Sites VOC Groundwater Plumes
William Rothenmeyer EPA Region 8 Environmental Engineer 303 312 6045 rothenmeyer.william@epa.gov	<ul style="list-style-type: none"> Chemical Oxidation (ISCO) Engineered Barriers (slurry/sheet pile walls) Excavation 		<ul style="list-style-type: none"> Asbestos Dioxins Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> Mining Sites Wood Treatment Facilities

Federal Facilities Forum

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Christine Williams Region 1 New England RPM 617-918-1384 williams.christine@epa.gov	<ul style="list-style-type: none"> BRAC and ICs 				
Clint Sperry Region 7, Kansas City, KS RPM 913-551-7157 sperry.clint@epa.gov	<ul style="list-style-type: none"> Chemical Reduction (In Situ) Enhanced Bioremediation (Groundwater) Permeable Reactive Barrier Phytoremediation Pump and Treat Solidification/Stabilization 	<ul style="list-style-type: none"> Multi-incremental Sampling Radiological Techniques (Gamma/Alpha Spectrometry) X-Ray Fluorescence 	<ul style="list-style-type: none"> Chlorinated VOCs Dioxins Metals Perchlorates Polycyclic Aromatic Hydrocarbons (PAHs) Radioactive Materials Radiological 		<ul style="list-style-type: none"> Rad Sites VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Dan Gravatt Region 7 RPM 9135517324 gravatt.dan@epa.gov	<ul style="list-style-type: none"> • Air Stripping • Chemical Oxidation (ISCO) • Enhanced Bioremediation (Groundwater) • Excavation • Geotextile/Clay Covers • Monitored Natural Attenuation • Pump and Treat • Recirculating Wells • Soil Vapor Extraction • Thermal Desorption (Ex Situ) 	<ul style="list-style-type: none"> • Borehole Geophysics • Direct-Push Analytical Systems • Direct-Push Groundwater Samplers • Direct-Push Membrane Interface Probes • Direct-Push Platforms • Direct-Push Soil and Soil-Gas Samplers • FID/PID (Flame & Photo Ionization Detectors) • Inductively coupled Plasma (ICP) • Mass Spectrometry • Passive Diffusion Bag (PDB) Samplers • Passive Soil Gas Samplers • Surface Geophysics • X-Ray Fluorescence 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Explosives, Propellants, and Pyrotechnics • Metals • Pesticides • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) • Radiological 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Rad Sites • VOC Groundwater Plumes
Laurence E. Gadbois Region 10, Environmental Cleanup Office Environmental Scientist 509-376-9884 gadbois.larry@epa.gov	<ul style="list-style-type: none"> • Chemical Reduction (In Situ) • Excavation • Pump and Treat 	<ul style="list-style-type: none"> • Sediment Pore Water Sampling 	<ul style="list-style-type: none"> • Asbestos • Metals • Radioactive Materials • Radiological 		<ul style="list-style-type: none"> • Rad Sites

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Nadia Burke Region 9 RPM/Environmental Engineer 415-972-3187 Burke.NadiaHollan@epa.gov	<ul style="list-style-type: none"> • Air Stripping • BRAC and ICs • Chemical Oxidation (ISCO) • Chemical Reduction (In Situ) • Chemical Treatment/Dechlorination (Ex Situ) • Enhanced Bioremediation (Groundwater) • Evapotranspiration Landfill Covers • Excavation • Indoor Air remediation/mitigation • Monitored Natural Attenuation • Permeable Reactive Barrier • Phytoremediation • Pump and Treat • Soil Vapor Extraction • Thermal Oxidizer • Ultraviolet Oxidation 	<ul style="list-style-type: none"> • Borehole Geophysics • Capture Zone Analysis • Direct-Push Soil and Soil-Gas Samplers • FID/PID (Flame & Photo Ionization Detectors) • Gas Chromatography • Ground Penetrating Radar • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Mass Spectrometry • Passive Diffusion Bag (PDB) Samplers • Passive Sampling • Passive Soil Gas Samplers • Pump Test Design/Review • Radiological Techniques (Gamma/Alpha Spectrometry) • Well Design/Installation/ Development • X-Ray Fluorescence 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Metals • Radioactive Materials • Radiological 	<ul style="list-style-type: none"> • Environmental Footprint Analysis • Green Remediation Tools • Johnson- Ettinger • SRT (AFCEE) • VLEACH 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Mining Sites • Rad Sites • VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Richard Mayer U.S. EPA Region 6, Dallas, TX RPM/Environmental Engineer 214-665-7442 mayer.richard@epa.gov	<ul style="list-style-type: none"> Enhanced Bioremediation (Groundwater) Excavation Monitored Natural Attenuation Open Burn/Open Detonation Permeable Reactive Barrier Phytoremediation Solidification/Stabilization 	<ul style="list-style-type: none"> Direct-Push Analytical Systems Direct-Push Groundwater Samplers Direct-Push Membrane Interface Probes Direct-Push Soil and Soil-Gas Samplers Explosives FID/PID (Flame & Photo Ionization Detectors) Multi-incremental Sampling Passive Diffusion Bag (PDB) Samplers Radiological Techniques (Gamma/Alpha Spectrometry) TAGA X-Ray Fluorescence 	<ul style="list-style-type: none"> BTEX Chlorinated VOCs Explosives, Propellants, and Pyrotechnics Metals Nonchlorinated VOCs Perchlorates Pesticides Polychlorinated Biphenyls (PCBs) Polycyclic Aromatic Hydrocarbons (PAHs) Radiological 	<ul style="list-style-type: none"> RESRAD Scribe 	<ul style="list-style-type: none"> Explosives Sites Rad Sites Sediment Sites VOC Groundwater Plumes
Stephen Tzhone Region 6 RPM 214.665.8409 tzhone.stephen@epa.gov	<ul style="list-style-type: none"> Chemical Reduction (In Situ) Enhanced Bioremediation (Groundwater) Excavation Monitored Natural Attenuation Pump and Treat 	<ul style="list-style-type: none"> Data Visualization Tools 	<ul style="list-style-type: none"> Chlorinated VOCs Dioxins Metals Perchlorates 		<ul style="list-style-type: none"> Sediment Sites VOC Groundwater Plumes
Stuart Walker HQ, Office of Superfund Remediation and Technology Innovation (OSRTI) Environmental Protection Specialist 703-603-8748 walker.stuart@epa.gov	<ul style="list-style-type: none"> Monitored Natural Attenuation 	<ul style="list-style-type: none"> Sediment Pore Water Sampling 	<ul style="list-style-type: none"> Radioactive Materials Radiological 	<ul style="list-style-type: none"> PRG, BPRG, SPRG, DCC, BDCC, SDCC 	<ul style="list-style-type: none"> Rad Sites
Tom Barounis Region 5 RPM 312-353-5577 barounis.thomas@epa.gov	<ul style="list-style-type: none"> Excavation Monitored Natural Attenuation Pump and Treat 	<ul style="list-style-type: none"> Multi-incremental Sampling Statistical Sampling Design Surface Geophysics X-Ray Fluorescence 	<ul style="list-style-type: none"> Chlorinated VOCs Explosives, Propellants, and Pyrotechnics Metals Polychlorinated Biphenyls (PCBs) Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> Chemical Manufacturing Facilities Explosives Sites Sediment Sites

Ground Water Forum

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Andrew Schmidt Region 8 Superfund Hydrogeologist 303.312.6283 schmidt.andrew@epa.gov	<ul style="list-style-type: none"> • Air Sparging • Monitored Natural Attenuation • Multi Phase Extraction • Pump and Treat • Soil Vapor Extraction 	<ul style="list-style-type: none"> • Data Visualization Tools • Direct-Push Groundwater Samplers • Direct-Push Platforms • Direct-Push Soil and Soil-Gas Samplers • FID/PID (Flame & Photo Ionization Detectors) • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Hydrogeologic Conceptual Site Models • Low-Flow GW Sampling Procedures • Passive Sampling • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • Chlorinated SVOCs • Chlorinated VOCs • Nonchlorinated SVOCs • Nonchlorinated VOCs 	<ul style="list-style-type: none"> • Johnson- Ettinger • MODFLOW Manual • WhAEM2000 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • VOC Groundwater Plumes • Wood Treatment Facilities
Barbara Vetort-Tiffany State Geologist 517-335-1807 vetortb@michigan.gov	<ul style="list-style-type: none"> • Air Sparging • BRAC and ICs • Chemical Oxidation (ISCO) • Engineered Barriers (slurry/sheet pile walls) • Enhanced Bioremediation (Groundwater) • Enhanced Bioremediation (Soil) • Evapotranspiration Landfill Covers • Excavation • Geotextile/Clay Covers • Monitored Natural Attenuation • Permeable Reactive Barrier • Phytoremediation • Pump and Treat 	<ul style="list-style-type: none"> • Data Visualization Tools • Direct-Push Groundwater Samplers • FID/PID (Flame & Photo Ionization Detectors) • Passive Diffusion Bag (PDB) Samplers • Sediment Pore Water Sampling • X-Ray Fluorescence 	<ul style="list-style-type: none"> • Nonchlorinated SVOCs • Nonchlorinated VOCs • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> • VSP 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Lead and Asbestos Sites • Mining Sites • Sediment Sites • VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Ben Bentkowski Region 4 hydrogeologist 404-562-8507 Bentkowski.Ben@epa.gov	<ul style="list-style-type: none"> • Chemical Reduction (In Situ) • Enhanced Bioremediation (Groundwater) • Monitored Natural Attenuation • Recirculating Wells 	<ul style="list-style-type: none"> • Borehole Geophysics • Direct-Push Analytical Systems • Direct-Push Groundwater Samplers • Direct-Push Membrane Interface Probes • Ground Penetrating Radar • Groundwater Sampling Methods/ Considerations • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • Chlorinated VOCs 		<ul style="list-style-type: none"> • Dry Cleaners • Explosives Sites • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Bernie Zavala Region 10 Hydrogeologist LG, LHG 206-553-1562 zavala.bernie@EPA.GOV	<ul style="list-style-type: none"> • Air Stripping • Chemical Reduction (In Situ) • Engineered Barriers (slurry/sheet pile walls) • Enhanced Bioremediation (Groundwater) • Excavation • In-Well Air Stripping • Monitored Natural Attenuation • Permeable Reactive Barrier • Pump and Treat • Recirculating Wells • Soil Vapor Extraction 	<ul style="list-style-type: none"> • Capture Zone Analysis • Direct-Push Groundwater Samplers • Direct-Push Platforms • FID/PID (Flame & Photo Ionization Detectors) • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • GW Plume Attenuation Modeling Tools • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Isotropic Analysis • Low-Flow GW Sampling Procedures • Passive Diffusion Bag (PDB) Samplers • Passive Sampling • Pump Test Design/Review • RCRA Groundwater Monitoring • Statistical Analysis of GW Data • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • Chlorinated SVOCs • Chlorinated VOCs • Mercury • Metals • Polychlorinated Biphenyls (PCBs) 	<ul style="list-style-type: none"> • Analytical/Numerical Solutions for Aquifer Parameters • GEOEAS • MAROS • REMchlor • SourceDK • WhAEM • WhAEM2000 • WHPA 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Mining Sites • VOC Groundwater Plumes
Brad Roberts Region 7 Environmental Scientist 913-551-7279 roberts.bradley@epa.gov		<ul style="list-style-type: none"> • RCRA Groundwater Monitoring 	<ul style="list-style-type: none"> • Chlorinated VOCs 		<ul style="list-style-type: none"> • VOC Groundwater Plumes
Brian Zurbuchen Region 7 RPM 913-551-7101 zurbuchen.brian@epa.gov	<ul style="list-style-type: none"> • Pump and Treat • Recirculating Wells • Soil Vapor Extraction 	<ul style="list-style-type: none"> • Data Visualization Tools • GW Plume Attenuation Modeling Tools • Pneumatic logging 	<ul style="list-style-type: none"> • Chlorinated VOCs 	<ul style="list-style-type: none"> • GEOEAS • MVS/EVS 	<ul style="list-style-type: none"> • VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Dale Werkema ORD/NERL/ESD/CMB research geophysicist 702-798-2263 werkema.d@epa.gov	<ul style="list-style-type: none"> Monitoring 	<ul style="list-style-type: none"> Borehole Geophysics Electrical conductivity Electromagnetics Ground Penetrating Radar Ground Water/Surface Water Interaction Hydrogeologic Conceptual Site Models Magnetics for Environmental Applications Surface Geophysics 			
Dan Nicoski Region 7 Hydrogeologist 913-551-7230 nicoski.dan@epa.gov	<ul style="list-style-type: none"> Air Sparging Air Stripping Chemical Oxidation (ISCO) Enhanced Bioremediation (Groundwater) Indoor Air remediation/mitigation Monitored Natural Attenuation Permeable Reactive Barrier Pump and Treat Soil Vapor Extraction 	<ul style="list-style-type: none"> Capture Zone Analysis Groundwater Monitoring Network Design or Optimization Groundwater Sampling Methods/Considerations Passive Sampling 	<ul style="list-style-type: none"> Chlorinated VOCs Nonchlorinated VOCs 		<ul style="list-style-type: none"> Chemical Manufacturing Facilities Dry Cleaners VOC Groundwater Plumes
David Wilson Region 5 Hydro 312-886-1476 wilson.david@epa.gov	<ul style="list-style-type: none"> Air Sparging Air Stripping Engineered Barriers (slurry/sheet pile walls) In-Well Air Stripping Monitored Natural Attenuation Pump and Treat Recirculating Wells Soil Vapor Extraction 	<ul style="list-style-type: none"> Capture Zone Analysis Data Visualization Tools Ground Water/Surface Water Interaction Groundwater Monitoring Network Design or Optimization GW Plume Attenuation Modeling Tools Statistical Analysis of GW Data 	<ul style="list-style-type: none"> Chlorinated SVOCs Chlorinated VOCs Dioxins Nonchlorinated SVOCs Nonchlorinated VOCs Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> GEOEAS Ground Water Sensitivity Toolkit MAROS MODFLOW Manual MT3D MVS/EVS SADA 	<ul style="list-style-type: none"> Chemical Manufacturing Facilities Dry Cleaners Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators VOC Groundwater Plumes Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Diana Cutt Region 2/ORD Superfund Technology Liaison (STL) 212-637-4311 cutt.diana@epa.gov	<ul style="list-style-type: none"> • Air Stripping • Chemical Oxidation (ISCO) • Enhanced Bioremediation (Groundwater) • Monitored Natural Attenuation • Pump and Treat 	<ul style="list-style-type: none"> • Borehole Geophysics • Capture Zone Analysis • Direct-Push Groundwater Samplers • Flute Liners • Flux measurement Technologies • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Low-Flow GW Sampling Procedures • Multi-incremental Sampling • Passive Diffusion Bag (PDB) Samplers • Passive Sampling • Pump Test Design/Review • Sediment Pore Water Sampling • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Dioxins • Explosives, Propellants, and Pyrotechnics • Fuels and Distillates • Mercury • Metals • Nonchlorinated SVOCs • Nonchlorinated VOCs • Perchlorates • Pesticides • Phenols • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Explosives Sites • Lead and Asbestos Sites • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Pesticide Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Dianna Kilburn AR Geologist Supervisor 501-682-0844 kilburn@adeq.state.ar.us	<ul style="list-style-type: none"> • BRAC and ICs • Chemical Oxidation (ISCO) • Engineered Barriers (slurry/sheet pile walls) • Enhanced Bioremediation (Groundwater) • In-Well Air Stripping • Monitored Natural Attenuation • Open Burn/Open Detonation • Permeable Reactive Barrier • Pump and Treat • Soil Vapor Extraction 	<ul style="list-style-type: none"> • Direct-Push Groundwater Samplers • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Hydrogeologic Conceptual Site Models • Low-Flow GW Sampling Procedures • RCRA Groundwater Monitoring • Statistical Analysis of GW Data • TAGA • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Dioxins • Explosives, Propellants, and Pyrotechnics • Mercury • Metals • Nonchlorinated SVOCs • Nonchlorinated VOCs • Perchlorates • Pesticides • Phenols • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> • Only to evaluate for appropriateness-do not run the models 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Mining Sites • Pesticide Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities
Donald T. Bussey Environmental Response Team (ERT) Environmental Scientist 702-784-8016 bussey.don@epa.gov		<ul style="list-style-type: none"> • Borehole Geophysics • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Pump Test Design/Review • Surface Geophysics • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • BTEX • Chlorinated VOCs • Metals • Nonchlorinated VOCs 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Mining Sites • VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Ed Gilbert OSRTI/TIFSD/Technology Assessment Branch Hydrogeologist (703) 603-8883 gilbert.edward@epa.gov	<ul style="list-style-type: none"> • Air Sparging • Chemical Oxidation (ISCO) • Chemical Reduction (In Situ) • Enhanced Bioremediation (Groundwater) • Fracturing • Monitored Natural Attenuation • Pump and Treat • Surfactant Enhanced ISCO • Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> • Capture Zone Analysis • Data Visualization Tools • Direct-Push Analytical Systems • Direct-Push Groundwater Samplers • Direct-Push Membrane Interface Probes • Direct-Push Platforms • Direct-Push Soil and Soil-Gas Samplers • Ground Penetrating Radar • Groundwater Sampling Methods/ Considerations • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Laser-induced Fluorescence • Low-Flow GW Sampling Procedures • Optical Tools (i.e. ROST) • Pump Test Design/Review • TAGA • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • Asbestos • BTEX • Chlorinated VOCs • Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> • BIOCHLOR • BIOSCREEN • CAMEO • REMchlor • Scribe • VSP 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Lead and Asbestos Sites • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
gary newhart US EPA ERT environmental scientist / geotechnical engineer 513.569.7661 newhart.gary@epa.gov	<ul style="list-style-type: none"> • Air Sparging • Air Stripping • Chemical Oxidation (ISCO) • Chemical Reduction (In Situ) • Electrokinetic Separation • Enhanced Bioremediation (Groundwater) • Enhanced Bioremediation (Soil) • Fracturing • Indoor Air remediation/mitigation • In-Well Air Stripping • Monitored Natural Attenuation • Pump and Treat • Recirculating Wells • Soil Vapor Extraction • Surfactant Enhanced ISCO • Thermal Desorption (Ex Situ) • Thermal Oxidizer • Thermal Treatment (In Situ) • Ultraviolet Oxidation 	<ul style="list-style-type: none"> • Capture Zone Analysis • Direct-Push Analytical Systems • Direct-Push Geotechnical Sensors • Direct-Push Groundwater Samplers • Direct-Push Membrane Interface Probes • Direct-Push Soil and Soil-Gas Samplers • FID/PID (Flame & Photo Ionization Detectors) • Fluorescence Kits • Flux measurement Technologies • Gas Chromatography • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Inductively coupled Plasma (ICP) • Mass Spectrometry • Passive Diffusion Bag (PDB) Samplers • Passive Sampling • Passive Soil Gas Samplers • Pump Test Design/Review • Sediment Pore Water Sampling • TAGA • X-ray Diffraction (lography/petrographs) 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Dioxins • Fuels and Distillates • Metals • Nonchlorinated SVOCs • Nonchlorinated VOCs • Pesticides • Phenols • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> • Analytical/Numerical Solutions for Aquifer Parameters • FIELD5 • Johnson- Ettinger • MODFLOW Manual 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Lead and Asbestos Sites • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Mining Sites • Pesticide Sites • Rad Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Glenn R. Bruck U.S. EPA Region 9 San Francisco, CA Hydrogeologist (415) 972-3060 bruck.glenn@epa.gov	<ul style="list-style-type: none"> Monitored Natural Attenuation 	<ul style="list-style-type: none"> Groundwater Monitoring Network Design or Optimization Groundwater Sampling Methods/ Considerations 	<ul style="list-style-type: none"> Chlorinated VOCs Pesticides 	<ul style="list-style-type: none"> MODFLOW Manual 	<ul style="list-style-type: none"> Pesticide Sites
Greg Lyssy EPA Region 6 Dallas RPM 214-665-8317 lyssy.gregory@epa.gov	<ul style="list-style-type: none"> Chemical Reduction (In Situ) Enhanced Bioremediation (Groundwater) Excavation Permeable Reactive Barrier Pump and Treat 	<ul style="list-style-type: none"> Direct-Push Groundwater Samplers Groundwater Monitoring Network Design or Optimization Groundwater Sampling Methods/ Considerations Hydrogeologic Conceptual Site Models Low-Flow GW Sampling Procedures Multi-incremental Sampling 	<ul style="list-style-type: none"> BTEX Chlorinated SVOCs Chlorinated VOCs Explosives, Propellants, and Pyrotechnics Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> Chemical Manufacturing Facilities Dry Cleaners Explosives Sites VOC Groundwater Plumes Wood Treatment Facilities
Henning Larsen State of Oregon Department of Environmental Quality Senior Hydrogeologist 503-229-5527 larsen.henning@DEQ.state.or.us	<ul style="list-style-type: none"> Air Sparging Air Stripping Enhanced Bioremediation (Groundwater) Evapotranspiration Landfill Covers Indoor Air remediation/mitigation Phytoremediation Soil Vapor Extraction Ultraviolet Oxidation 	<ul style="list-style-type: none"> Bioassays Direct-Push Soil and Soil-Gas Samplers Flux measurement Technologies Ground Water/Surface Water Interaction GW Plume Attenuation Modeling Tools Hydraulic Conductivity Aquifer Testing Hydrogeologic Conceptual Site Models Sediment Pore Water Sampling Statistical Analysis of GW Data 	<ul style="list-style-type: none"> BTEX Chlorinated SVOCs Chlorinated VOCs Fuels and Distillates Perchlorates Pesticides Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> BIOCHLOR Johnson- Ettinger REMchlor WHPA 	<ul style="list-style-type: none"> Chemical Manufacturing Facilities Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators Pesticide Sites Sediment Sites VOC Groundwater Plumes Wood Treatment Facilities
Howard Orlean Region 10 Superfund RPM 206-553-2851 orlean.howard@epa.gov	<ul style="list-style-type: none"> Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> Borehole Geophysics Direct-Push Geotechnical Sensors 	<ul style="list-style-type: none"> BTEX Chlorinated SVOCs Chlorinated VOCs Metals Polychlorinated Biphenyls (PCBs) Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> BIOPLUME II 	<ul style="list-style-type: none"> Chemical Manufacturing Facilities Sediment Sites VOC Groundwater Plumes Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Katherine Baylor Region 9 Hydrogeologist 415-972-3351 baylor.katherine@epa.gov	<ul style="list-style-type: none"> • Air Stripping • Enhanced Bioremediation (Groundwater) • Indoor Air remediation/mitigation • Monitored Natural Attenuation • Open Burn/Open Detonation • Phytoremediation • Pump and Treat 	<ul style="list-style-type: none"> • Data Visualization Tools • Direct-Push Groundwater Samplers • Flute Liners • Immunoassays • Multi-incremental Sampling • Passive Diffusion Bag (PDB) Samplers • X-Ray Fluorescence 	<ul style="list-style-type: none"> • Chlorinated VOCs • Mercury • Metals • Nonchlorinated VOCs • Polychlorinated Biphenyls (PCBs) 	<ul style="list-style-type: none"> • VSP 	<ul style="list-style-type: none"> • Mining Sites • VOC Groundwater Plumes • Wood Treatment Facilities
Katherine Mishkin EPA R2 Geologist 212-637-4449 mishkin.katherine@epa.gov	<ul style="list-style-type: none"> • Chemical Reduction (In Situ) • Chemical Treatment/Dechlorination (Ex Situ) • Enhanced Bioremediation (Groundwater) • Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> • Flute Liners • X-Ray Fluorescence 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Metals • Radiological 		<ul style="list-style-type: none"> • Dry Cleaners • Sediment Sites • VOC Groundwater Plumes
Kathryn Flynn Region 2 RPM (212) 637-3735 Flynn.Kathryn@epa.gov	<ul style="list-style-type: none"> • Chemical Reduction (In Situ) 	<ul style="list-style-type: none"> • Flute Liners • Ground Water/Surface Water Interaction • Inductively coupled Plasma (ICP) • Mass Spectrometry 	<ul style="list-style-type: none"> • Chlorinated VOCs • Metals • Radioactive Materials • Radiological 		<ul style="list-style-type: none"> • Mining Sites • Rad Sites • VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Kathy Davies Region III Hydrogeologist Team Leader 215-814-3315 davies.kathy@epa.gov	<ul style="list-style-type: none"> • BRAC and ICs • Chemical Oxidation (ISCO) • Chemical Reduction (In Situ) • Engineered Barriers (slurry/sheet pile walls) • Enhanced Bioremediation (Groundwater) • Fracturing • Monitored Natural Attenuation • Multi Phase Extraction • Pump and Treat • Recirculating Wells • Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> • Borehole Geophysics • Capture Zone Analysis • Direct-Push Groundwater Samplers • Direct-Push Membrane Interface Probes • Explosives • Flute Liners • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Hydrogeologic Conceptual Site Models • Low-Flow GW Sampling Procedures • Passive Diffusion Bag (PDB) Samplers • Passive Sampling • Pump Test Design/Review • Sediment Pore Water Sampling • TAGA • Tracers • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Explosives, Propellants, and Pyrotechnics • Metals • Nonchlorinated SVOCs • Nonchlorinated VOCs • Perchlorates • Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Explosives Sites • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
kay wischkaemper region 4 hydrogeologist 404-562-8641 wischkaemper.kay@epa.gov	<ul style="list-style-type: none"> • Pump and Treat 	<ul style="list-style-type: none"> • Data Visualization Tools • Direct-Push Groundwater Samplers • Flute Liners • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • GW Plume Attenuation Modeling Tools • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Passive Diffusion Bag (PDB) Samplers • Sediment Pore Water Sampling 	<ul style="list-style-type: none"> • Chlorinated VOCs • Mercury • Nonchlorinated VOCs • Perchlorates • Pesticides • Polychlorinated Biphenyls (PCBs) 	<ul style="list-style-type: none"> • BIOCHLOR • BIOSCREEN • PESTAN 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Pesticide Sites • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Kevin Willis Region 2 Remedial Project Manager/Hydrogeologist 212-637-4252 willis.kevin@epa.gov	<ul style="list-style-type: none"> • Air Sparging • Air Stripping • AMD/MIW treatment including Biochemical Reactors, HDS, and single phase lime • BRAC and ICs • Chemical Oxidation (ISCO) • Chemical Reduction (In Situ) • Chemical Treatment/Dechlorination (Ex Situ) • Engineered Barriers (slurry/sheet pile walls) • Enhanced Bioremediation (Groundwater) • Excavation • Fracturing • Geotextile/Clay Covers • Horizontal Wells • Incineration • Indoor Air remediation/mitigation • In-Well Air Stripping • Monitored Natural Attenuation • Multi Phase Extraction • Permeable Reactive Barrier • Pump and Treat • Recirculating Wells • Soil Vapor Extraction • Solidification/Stabilization • Thermal Oxidizer • Ultraviolet Oxidation 	<ul style="list-style-type: none"> • Bioassays • Borehole Geophysics • Capture Zone Analysis • Data Visualization Tools • Direct-Push Analytical Systems • Direct-Push Geotechnical Sensors • Direct-Push Groundwater Samplers • Direct-Push Membrane Interface Probes • Direct-Push Platforms • Direct-Push Soil and Soil-Gas Samplers • Electrical conductivity • Electromagnetics • Flute Liners • Flux measurement Technologies • Gas Chromatography • Ground Penetrating Radar • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • GW Plume Attenuation Modeling Tools • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Isotropic Analysis • Low-Flow GW Sampling Procedures • Multi-incremental Sampling • Passive Diffusion Bag (PDB) Samplers • Passive Sampling • Pump Test Design/Review • Sediment Pore Water Sampling • Surface Geophysics • TAGA • Well Design/Installation/ Development • X-Ray Fluorescence 	<ul style="list-style-type: none"> • Asbestos • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Dioxins • Explosives, Propellants, and Pyrotechnics • Mercury • Metals • Nonchlorinated SVOCs • Perchlorates • Pesticides • Phenols • Polychlorinated Biphenyls (PCBs) • Radioactive Materials 	<ul style="list-style-type: none"> • BIOCHLOR • BIOPLUME II • GEOEAS • Johnson- Ettinger • MODFLOW Manual • MT3D 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Rad Sites • Sediment Sites • VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Lily Barkau Lee Wyoming DEQ Natural Resource Program Principal 307-777-7541 lily.barkau@wyo.gov	<ul style="list-style-type: none"> • Air Sparging • Air Stripping • Engineered Barriers (slurry/sheet pile walls) • Excavation • Indoor Air remediation/mitigation • Monitored Natural Attenuation • Phytoremediation • Pump and Treat • Soil Vapor Extraction • Solidification/Stabilization 	<ul style="list-style-type: none"> • Bioassays • Borehole Geophysics • Capture Zone Analysis • Direct-Push Analytical Systems • Direct-Push Geotechnical Sensors • Direct-Push Groundwater Samplers • Direct-Push Membrane Interface Probes • Direct-Push Platforms • Direct-Push Soil and Soil-Gas Samplers • Electrical conductivity • FID/PID (Flame & Photo Ionization Detectors) • Gas Chromatography • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • GW Plume Attenuation Modeling Tools • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Immunoassays • Isotropic Analysis • Passive Diffusion Bag (PDB) Samplers • Passive Sampling • Passive Soil Gas Samplers • RCRA Groundwater Monitoring • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Fuels and Distillates • Metals • Nonchlorinated SVOCs • Nonchlorinated VOCs • Perchlorates • Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> • MODFLOW Manual 	<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Explosives Sites • Lead and Asbestos Sites • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Mining Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Marcia Knadle Region 10 Hydrogeologist 206-553-1641 knadle.marcia@epa.gov	<ul style="list-style-type: none"> Engineered Barriers (slurry/sheet pile walls) Enhanced Bioremediation (Groundwater) Geotextile/Clay Covers Monitored Natural Attenuation Pump and Treat Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> Data Visualization Tools Direct-Push Groundwater Samplers Direct-Push Soil and Soil-Gas Samplers FID/PID (Flame & Photo Ionization Detectors) Ground Penetrating Radar Ground Water/Surface Water Interaction Groundwater Monitoring Network Design or Optimization Groundwater Sampling Methods/ Considerations GW Plume Attenuation Modeling Tools Hydraulic Conductivity Aquifer Testing Hydrogeologic Conceptual Site Models Low-Flow GW Sampling Procedures Passive Diffusion Bag (PDB) Samplers Statistical Analysis of GW Data Well Design/Installation/ Development 	<ul style="list-style-type: none"> BTEX Chlorinated VOCs Explosives, Propellants, and Pyrotechnics Metals Perchlorates Pesticides 	<ul style="list-style-type: none"> BIOCHLOR BIOSCREEN MAROS REMchlor WHPA 	<ul style="list-style-type: none"> Explosives Sites Mining Sites Pesticide Sites VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Marcia Knadle Region 10 Hydrogeologist 206-553-1641 knadle.marcia@epa.gov	<ul style="list-style-type: none"> Enhanced Bioremediation (Groundwater) Monitored Natural Attenuation Pump and Treat Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> Groundwater Monitoring Network Design or Optimization Groundwater Sampling Methods/ Considerations Hydrogeologic Conceptual Site Models Low-Flow GW Sampling Procedures Passive Diffusion Bag (PDB) Samplers Statistical Analysis of GW Data Well Design/Installation/ Development 	<ul style="list-style-type: none"> Chlorinated VOCs Metals Perchlorates 	<ul style="list-style-type: none"> BIOCHLOR MAROS WhAEM 	<ul style="list-style-type: none"> Explosives Sites Pesticide Sites VOC Groundwater Plumes
Margo Smith U.S. EPA Region 8 Environmental Engineer (303) 312-6318 smith.margo@epa.gov		<ul style="list-style-type: none"> RCRA Groundwater Monitoring 			<ul style="list-style-type: none"> VOC Groundwater Plumes
michael m. bailey US Army Corps of Engineers, Environmental & Munitions Center of Expertise hydrogeologist 402-697-2584 michael.m.bailey@usace.army.mil	<ul style="list-style-type: none"> Monitored Natural Attenuation Permeable Reactive Barrier Pump and Treat Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> FID/PID (Flame & Photo Ionization Detectors) Flute Liners Multi-incremental Sampling Passive Diffusion Bag (PDB) Samplers 	<ul style="list-style-type: none"> Chlorinated VOCs Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> MAROS SiteWise 	<ul style="list-style-type: none"> VOC Groundwater Plumes Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Michael Scorca Region 2 Hydrologist 212-637-4316 scorca.michael@epa.gov	<ul style="list-style-type: none"> • Chemical Oxidation (ISCO) • Monitored Natural Attenuation • Pump and Treat 	<ul style="list-style-type: none"> • Borehole Geophysics • Capture Zone Analysis • Ground Water/Surface Water Interaction • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Hydrogeologic Conceptual Site Models • Low-Flow GW Sampling Procedures • Passive Diffusion Bag (PDB) Samplers • Statistical Analysis of GW Data • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • Chlorinated VOCs • Metals 		<ul style="list-style-type: none"> • Dry Cleaners • VOC Groundwater Plumes
Mike Cramer R III Environmental Scientist 215-814-3446 cramer.mike@epa.gov	<ul style="list-style-type: none"> • Enhanced Bioremediation (Groundwater) • Monitored Natural Attenuation • Pump and Treat 	<ul style="list-style-type: none"> • Passive Diffusion Bag (PDB) Samplers 			<ul style="list-style-type: none"> • VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
R. Bruce Stuart Missouri Dept. of Natural Resources Senior Technical Advisor 573-751-1405 bruce.stuart@dnr.mo.gov	<ul style="list-style-type: none">• Air Sparging• Chemical Oxidation (ISCO)• Engineered Barriers (slurry/sheet pile walls)• Enhanced Bioremediation (Groundwater)• Excavation• Fracturing• Geotextile/Clay Covers• Horizontal Wells• Indoor Air remediation/mitigation• In-Well Air Stripping• Monitored Natural Attenuation• Multi Phase Extraction• Permeable Reactive Barrier• Phytoremediation• Pump and Treat• Soil Vapor Extraction• Ultraviolet Oxidation	<ul style="list-style-type: none">• Borehole Geophysics• Capture Zone Analysis• Direct-Push Groundwater Samplers• Electrical conductivity• Ground Water/Surface Water Interaction• Groundwater Monitoring Network• Design or Optimization• Groundwater Sampling Methods/ Considerations• Hydraulic Conductivity• Aquifer Testing• Hydrogeologic Conceptual Site Models• Low-Flow GW Sampling Procedures• Multi-incremental Sampling• Passive Diffusion Bag (PDB) Samplers• Passive Sampling• RCRA Groundwater Monitoring• Statistical Analysis of GW Data• Well Design/Installation/ Development	<ul style="list-style-type: none">• BTEX• Chlorinated VOCs• Dioxins• Explosives, Propellants, and Pyrotechnics• Fuels and Distillates• Metals• Nonchlorinated SVOCs• Nonchlorinated VOCs• Perchlorates• Pesticides• Polychlorinated Biphenyls (PCBs)• Polycyclic Aromatic Hydrocarbons (PAHs)		<ul style="list-style-type: none">• Chemical Manufacturing Facilities• Explosives Sites• Lead and Asbestos Sites• Mining Sites• VOC Groundwater Plumes• Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Ray Ledbetter OSWER/OSRTI/ERT Environmental Scientist (702) 784-8008 ledbetter.ray@epa.gov	<ul style="list-style-type: none"> • Air Stripping • Enhanced Bioremediation (Groundwater) • Monitored Natural Attenuation • Pump and Treat • Soil Vapor Extraction 	<ul style="list-style-type: none"> • Direct-Push Geotechnical Sensors • Direct-Push Groundwater Samplers • FID/PID (Flame & Photo Ionization Detectors) • Ground Water/Surface Water Interaction • Groundwater Sampling Methods/ Considerations • Hydraulic Conductivity Aquifer Testing • Passive Soil Gas Samplers • RCRA Groundwater Monitoring • TAGA 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Mercury • Metals • Nonchlorinated SVOCs • Nonchlorinated VOCs • Perchlorates • Pesticides • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) • Radiological 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Explosives Sites • Mining Sites • Pesticide Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities
Rene Fuentes R10 Office of Environmental Assessment Environmental Scientist -- Hydrogeologist 206 553-1599 fuentes.rene@epa.gov	<ul style="list-style-type: none"> • Chemical Oxidation (ISCO) • Engineered Barriers (slurry/sheet pile walls) • Enhanced Bioremediation (Groundwater) • Pump and Treat • Soil Vapor Extraction • Thermal Treatment (In Situ) 	<ul style="list-style-type: none"> • Data Visualization Tools • Direct-Push Groundwater Samplers • Direct-Push Soil and Soil-Gas Samplers • Flux measurement Technologies • Ground Water/Surface Water Interaction • Laser-induced Fluorescence • Multi-incremental Sampling • Optical Tools (i.e. ROST) • Passive Diffusion Bag (PDB) Samplers • Sediment Pore Water Sampling • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • Chlorinated SVOCs • Chlorinated VOCs • Metals • Perchlorates • Pesticides • Phenols • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Mining Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Richard Freitas Region 9 San Francisco Environmental Scientist 415-972-3804 freitas.richard@epa.gov	<ul style="list-style-type: none"> • Air Sparging • Enhanced Bioremediation (Groundwater) • Horizontal Wells • In-Well Air Stripping • Monitored Natural Attenuation • Permeable Reactive Barrier • Pump and Treat • Recirculating Wells • Soil Vapor Extraction 	<ul style="list-style-type: none"> • Capture Zone Analysis • Data Visualization Tools • Direct-Push Groundwater Samplers • Groundwater Sampling Methods/ Considerations • Hydraulic Conductivity Aquifer Testing • Hydrogeologic Conceptual Site Models • Inductively coupled Plasma (ICP) • Low-Flow GW Sampling Procedures • Passive Diffusion Bag (PDB) Samplers • Passive Soil Gas Samplers • Pump Test Design/Review • RCRA Groundwater Monitoring • Statistical Analysis of GW Data • Surface Geophysics • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • BTEX • Chlorinated SVOCs • Chlorinated VOCs • Mercury • Metals • Nonchlorinated SVOCs • Nonchlorinated VOCs • Perchlorates 	<ul style="list-style-type: none"> • MODFLOW Manual • WHPA 	<ul style="list-style-type: none"> • Mining Sites • VOC Groundwater Plumes
Robert M. Alvey, P.G. Region 2 Geologist (212) 637-3666 alvey.robert@epa.gov	<ul style="list-style-type: none"> • Air Stripping • Enhanced Bioremediation (Groundwater) • Enhanced Bioremediation (Soil) • Horizontal Wells • Phytoremediation • Pump and Treat 	<ul style="list-style-type: none"> • Data Visualization Tools • Direct-Push Groundwater Samplers • Groundwater Monitoring Network Design or Optimization • Groundwater Sampling Methods/ Considerations • Hydrogeologic Conceptual Site Models • Low-Flow GW Sampling Procedures • Passive Diffusion Bag (PDB) Samplers • Well Design/Installation/ Development 	<ul style="list-style-type: none"> • Chlorinated SVOCs • Chlorinated VOCs • Metals • Perchlorates 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Dry Cleaners • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • VOC Groundwater Plumes

Member	Remedies	Site Characterization Technologies	Contaminant Groups	Models	Site Types
Robert Maurice Alvey EPA Region 2 Geologist (212) 637-3666 alvey.robert@epa.gov	<ul style="list-style-type: none"> • Phytoremediation • Pump and Treat 	<ul style="list-style-type: none"> • Passive Diffusion Bag (PDB) Samplers 	<ul style="list-style-type: none"> • Chlorinated VOCs 		<ul style="list-style-type: none"> • VOC Groundwater Plumes
William Hagel EPA Region 3 Superfund & Technology Liaison 215-814-3053 hagel.bill@epa.gov	<ul style="list-style-type: none"> • Chemical Oxidation (ISCO) • Pump and Treat • Solidification/Stabilization 	<ul style="list-style-type: none"> • Data Visualization Tools • FID/PID (Flame & Photo Ionization Detectors) • Ground Penetrating Radar • Passive Soil Gas Samplers • TAGA • X-Ray Fluorescence 	<ul style="list-style-type: none"> • Chlorinated SVOCs • Chlorinated VOCs • Mercury • Pesticides • Polychlorinated Biphenyls (PCBs) 		<ul style="list-style-type: none"> • Chemical Manufacturing Facilities • Pesticide Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities
Yoon-Jean Choi Region 1 geotechnical engineer 617-918-1437 choi.jean@epa.gov	<ul style="list-style-type: none"> • Air Sparging • Engineered Barriers (slurry/sheet pile walls) • Enhanced Bioremediation (Groundwater) • Evapotranspiration Landfill Covers • Excavation • Fracturing • Geotextile/Clay Covers • Horizontal Wells • Indoor Air remediation/mitigation • Monitored Natural Attenuation • Multi Phase Extraction • Permeable Reactive Barrier • Pump and Treat • Recirculating Wells • Soil Vapor Extraction • Solidification/Stabilization 	<ul style="list-style-type: none"> • Borehole Geophysics • Capture Zone Analysis • Direct-Push Geotechnical Sensors • Direct-Push Groundwater Samplers • Direct-Push Soil and Soil-Gas Samplers • Electrical conductivity • Electromagnetics • Ground Penetrating Radar • Groundwater Monitoring Network Design or Optimization • GW Plume Attenuation Modeling Tools • Hydrogeologic Conceptual Site Models • Laser-induced Fluorescence • Optical Tools (i.e. ROST) • Pump Test Design/Review • Surface Geophysics 	<ul style="list-style-type: none"> • Chlorinated VOCs • Polychlorinated Biphenyls (PCBs) • Polycyclic Aromatic Hydrocarbons (PAHs) 	<ul style="list-style-type: none"> • BIOCHLOR • BIOPUME II • BIOSCREEN • Johnson- Ettinger • MAROS • MODFLOW Manual • MT3D • NAS • REMchlor 	<ul style="list-style-type: none"> • Manufacturing Gasification Plant, Metal Recycler, Pesticide Formulators • Mining Sites • Sediment Sites • VOC Groundwater Plumes • Wood Treatment Facilities